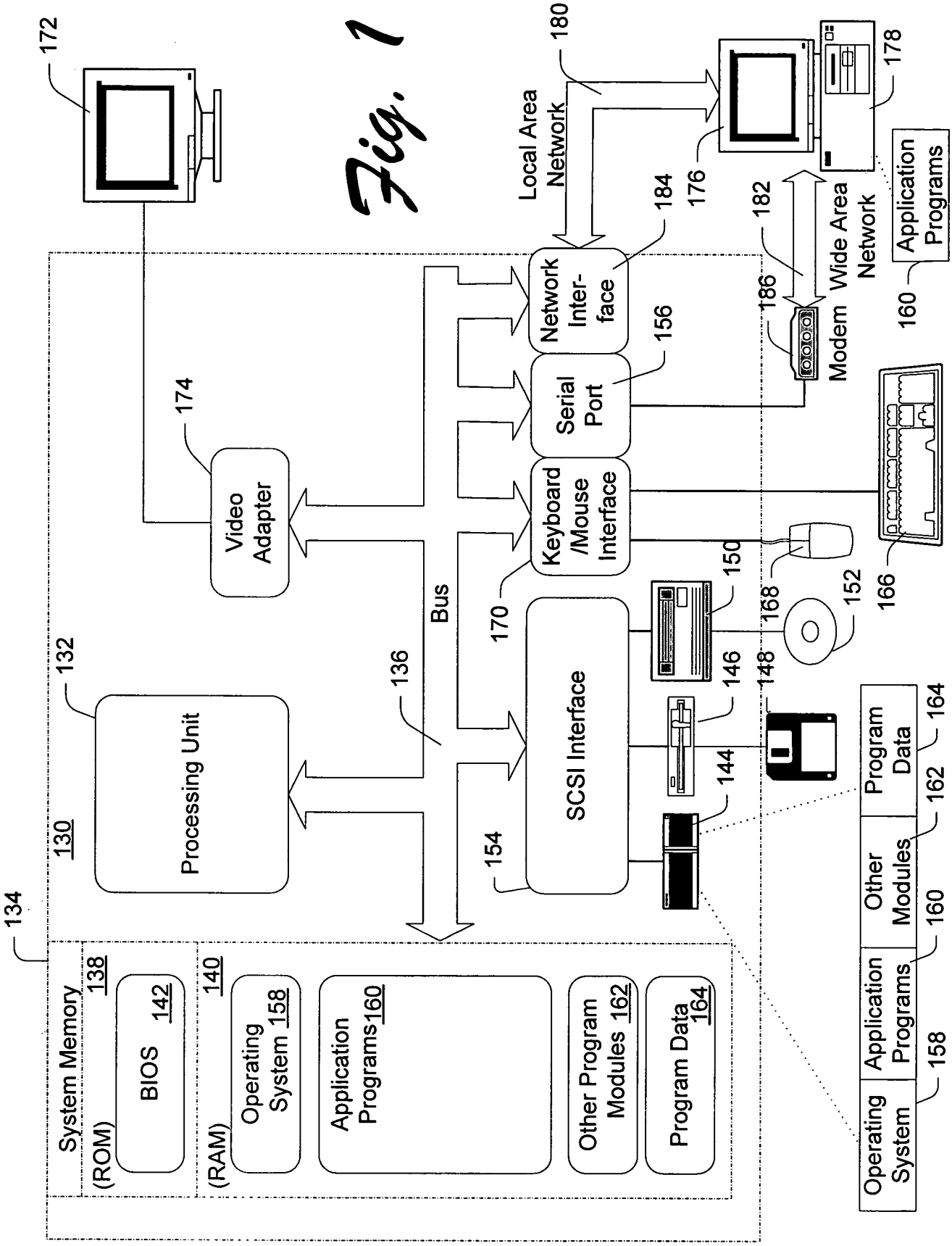
Fig. 1


172
180
Local Area Network
178
176
182
184
Wide Area Network
Application Programs
160
Network Inter-face
156
Serial Port
186
Modem
174
Video Adapter
Keyboard /Mouse Interface
150
168
152
166
Bus
170
132
136
Processing Unit
SCSI Interface
146
148
144
154
130
134
System Memory
138
(ROM)
BIOS 142
140
(RAM)
Operating System 158
Application Programs 160
Other Program Modules 162
Program Data 164
Program Data
164
Other Modules
162
Application Programs
160
Operating System
158

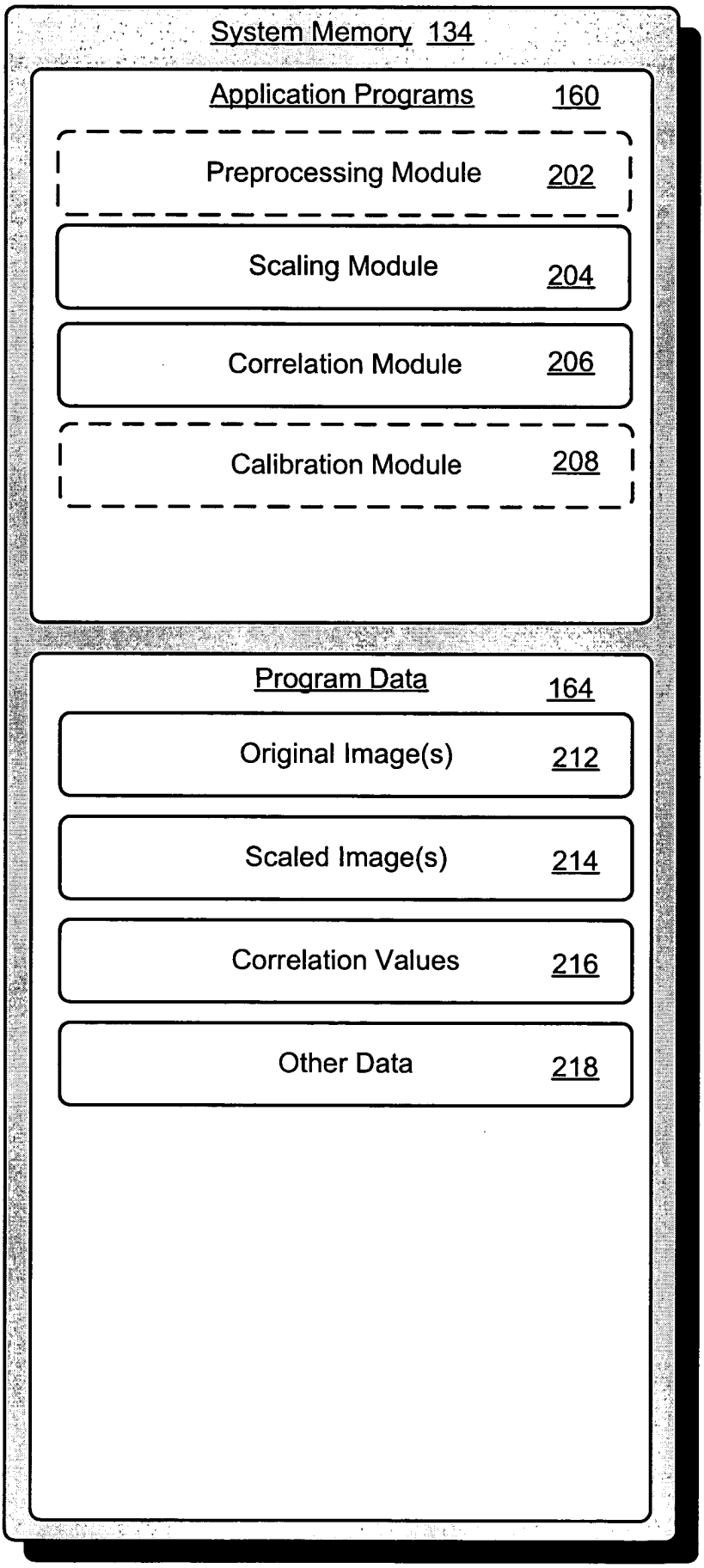

System Memory 134
Application Programs 160
Preprocessing Module 202
Scaling Module 204
Correlation Module 206
Calibration Module 208
Program Data 164
Original Image(s) 212
Scaled Image(s) 214
Correlation Values 216
Other Data 218

Fig. 2

300

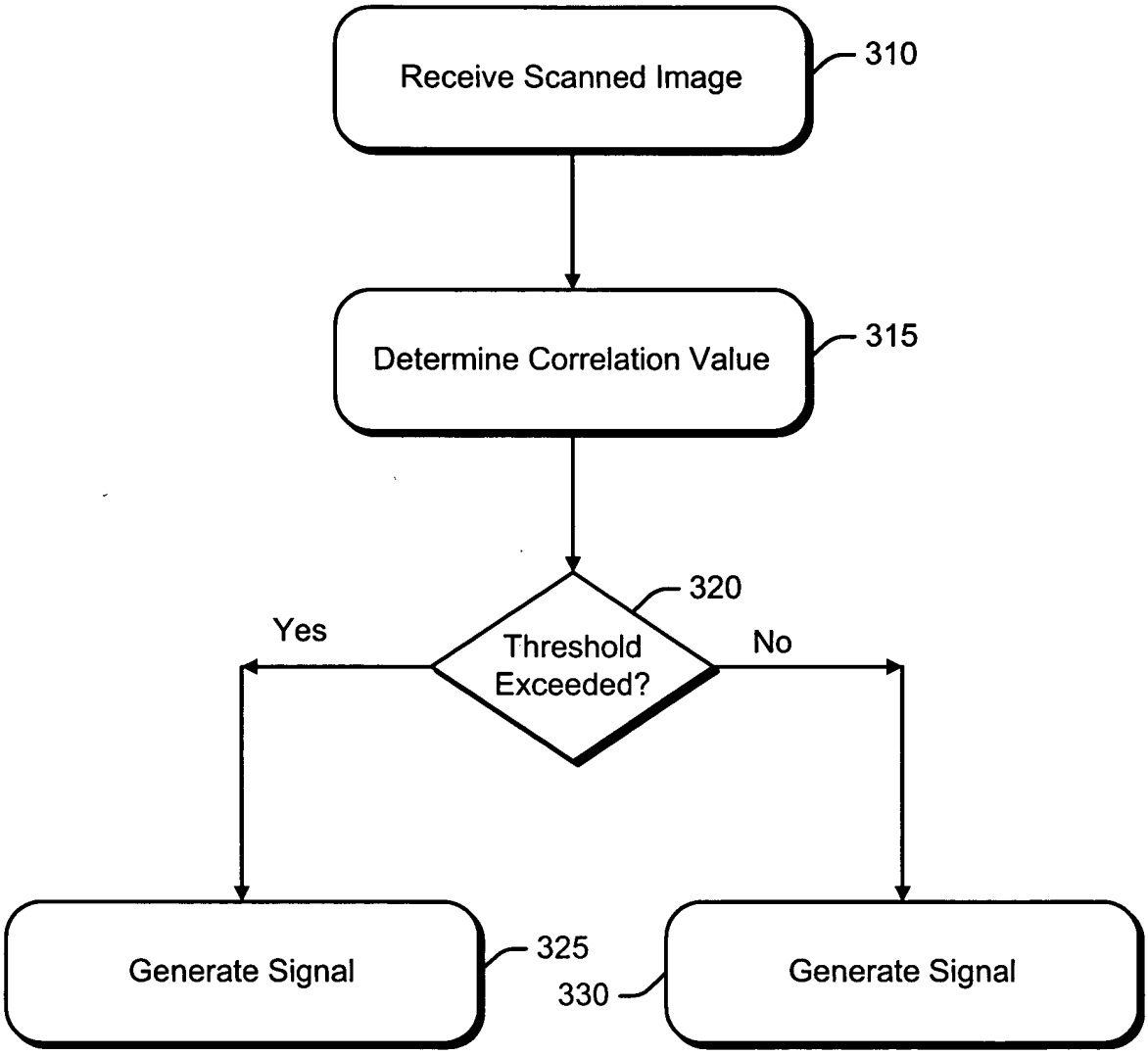

Receive Scanned Image
310
Determine Correlation Value
315
320
Threshold Exceeded?
Yes
No
Generate Signal
325
Generate Signal
330

Fig. 3

| | | | | | |
|---|---|---|---|---|---|
| 255 | 255 | 186 | . . . . | 210 | 229 | 255 |
| 255 | 225 | 197 | . . . . | 188 | 210 | 226 |
| 240 | 235 | 210 | . . . . | 166 | 180 | 210 |
| 222 | 220 | 188 | . . . . | 155 | 122 | 95 |
| 175 | 190 | 205 | . . . . | 89 | 107 | 47 |
| 74 | 66 | 105 | . . . . | 85 | 44 | 19 |
| 88 | 64 | 44 | . . . . | 22 | 13 | 0 |
| 55 | 86 | 56 | . . . . | 46 | 0 | 0 |
| 54 | 104 | 85 | . . . . | 73 | 0 | 0 |
| 77 | 177 | 88 | . . . . | 0 | 0 | 0 |
| 167 | 88 | 104 | . . . . | 0 | 0 | 0 |

Fig. 4a

| | | | | | |
|---|---|---|---|---|---|
| 255 | 255 | 186 | . . . . | 210 | 229 | 255 |
| 255 | 210 | 188 | . . . . | 196 | 205 | 218 |
| 235 | 250 | 220 | . . . . | 144 | 160 | 220 |
| 199 | 200 | 199 | . . . . | 155 | 112 | 105 |
| 177 | 180 | 222 | . . . . | 75 | 111 | 50 |
| 88 | 95 | 160 | . . . . | 66 | 48 | 17 |
| 111 | 64 | 55 | . . . . | 43 | 13 | 8 |
| 69 | 99 | 67 | . . . . | 88 | 14 | 0 |
| 54 | 117 | 85 | . . . . | 116 | 33 | 0 |
| 66 | 150 | 99 | . . . . | 17 | 0 | 0 |
| 190 | 106 | 154 | . . . . | 9 | 0 | 0 |

Fig. 4b

500

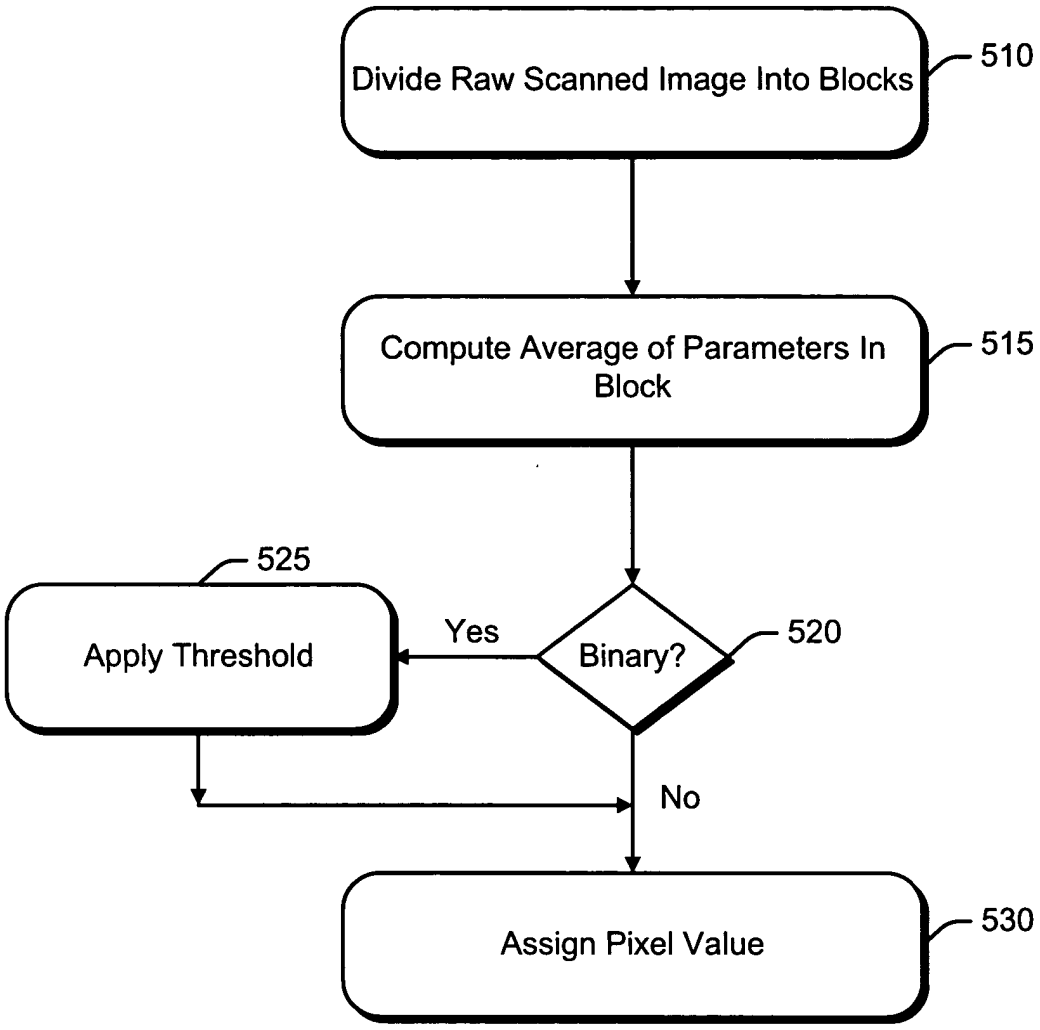

Divide Raw Scanned Image Into Blocks
510
Compute Average of Parameters In Block
515
525
Apply Threshold
Yes
Binary?
520
No
Assign Pixel Value
530

Fig. 5

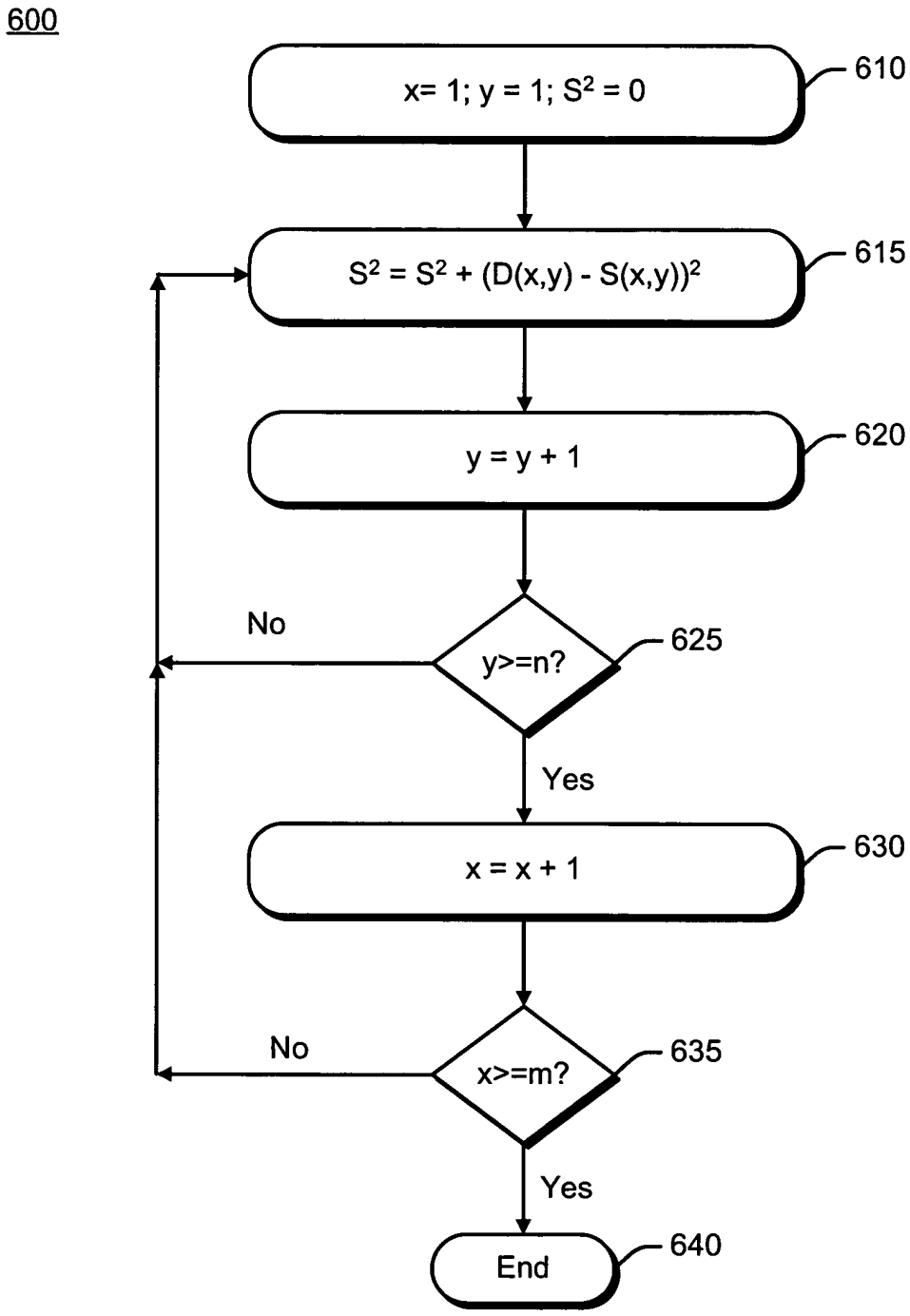

600
x= 1; y = 1; S2 = 0
610
S2 = S2 + (D(x,y) - S(x,y))2
615
y = y + 1
620
No
y>=n?
625
Yes
x = x + 1
630
No
x>=m?
635
Yes
End
640

Fig. 6

700

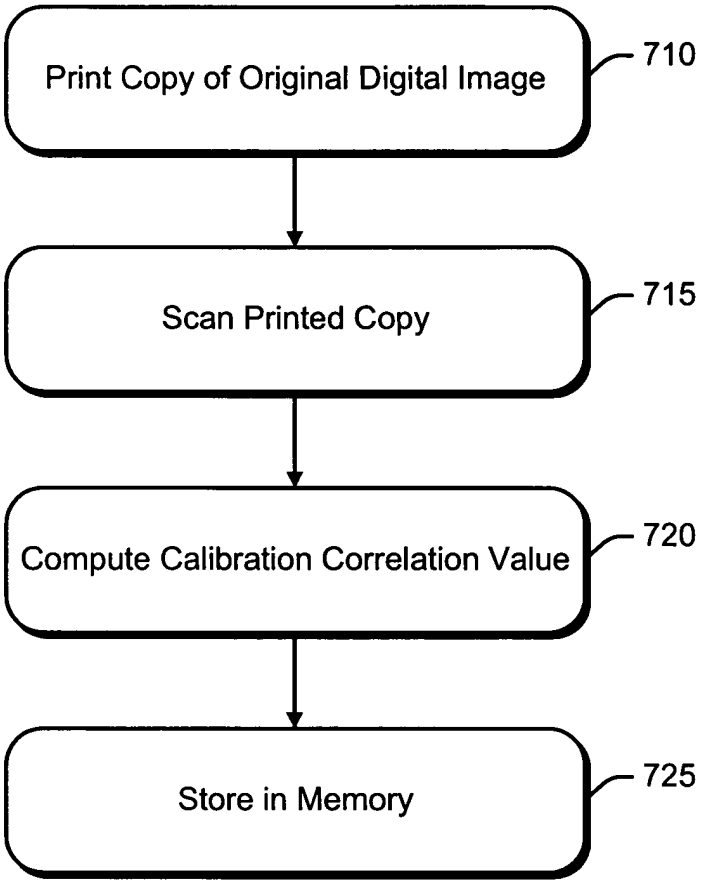

Print Copy of Original Digital Image
710
Scan Printed Copy
715
Compute Calibration Correlation Value
720
Store in Memory
725

Fig. 7